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October 27, 1995

OCT 2 7 1995

FEDERAL COMMUNICATIONS COMMISSION

CHINE OF SECRETARY

Mr. William F. Caton Acting Secretary Federal Communications Commission 1919 M Street, N.W., Room 222 Washington, D.C. 20554

RE: CC Docket 92-297

Dear Mr. Caton:

Pursuant to Section 1.1204(b)(7) of the Commission's rules, 47 C.F.R. § 1.1204(b)(7), this will serve to indicate that on October 26, 1995 Scott Harris, Tom Tycz, Harry Ng, Fern Jarmulnek, Karl Kensinger, Giselle Gomez, Jennifer Gilsenan, and Joslyn Read of the International Bureau held a Status Conference, with the attached list of participants, to discuss the submissions of recent GSO/FSS satellite applications in the 20/30 GHz band to the International Telecommunications Union (ITU). The attached documents formed a basis of the discussions.

The matter discussed was timely submission of Appendix 4 information to the ITU.

Sincerely,

Jennifer M. Gilsenan

No. of Copies rec'd_

041

20/30 GHz Satus Conference Attendees

October 26, 1995

Scott Hard	FCC	201-799-0400		
Name Tycz	Organization	200- 734-0566 Phone #	00 0 - 13 88 €	7-(212)
RUBERT SOTBELL	DEION	34 258-322	34 258 3319	
Henry Goldbe	PAS	202429 4900	2024294912	
RAY Bender	/ Lockheed Maretine	७२ ४ ५७ - २७५४	E02) 857-2900	
RICHARD BARNETT	10 10	301)229-020-	301) 320 - 2421	
Charles Milkes	Visionster	202-785-2828	202-285-1504	
dennuter Manner	Akin Gump for Talenes ic	202) 887 -4576	202) 887 -4288	
Arichale Pistone	Willke For to	202. 4745	202 887 -8979	
JOFF KRAUSS	Visionstan	301 309 3703	301 301 9323	
Andrew D'Yva	William Fur for	202-429-4773	202-887-897	
Vu Phan	there Comms.	(310) 607-4515	(310) 607-0015	
Jim Barker	Lather & World of Longh	0 202-637-2231	202-637-2201	
David Moskowitz	Echo Star	305-799-822X5323	303-779-0354	
Dan Golders	PanAsat	202-429-4900	202-429-4912	
Denni's Diekelman	Motorola	(602) 732-3942	732-2332	
PHILIP MALET	CTEPHI + JOHNSOO	(202) 371-1893	(201)842-3538	
Robert Nelson	GEAMERICOM	609 927 4321	609 987 4167	
Peter Rohrbach	Hogen + Hartson for 65	202 - 637-8631	202-637-5910	
Oquid 6.0 Neil	Rini, lorand cancell	1 202-256-2007	202-429-0537	
David M. Drucker	Kastar Sat Com	303-526/039	303 670-5/03	
Lawrence Williams	Telecosic Corp.	202.296.8047	202 296.8953	,



20/30 GHz Satus Conference Attendees

October 26, 1995

Name	Organization	Phone #	Fax #
FRANK X. Solomor	MORNING STAR	202-783-0338	202-783-0404
Frank Young	Morning Star	202-663-9080	202-331-8001
In Mc Cullough	ATET	908-221-6957	908-221-4593
Rich Currier	AT+T	908-949-5664	908-949-8087
Rex Hollis	SPACE SYSTEMS/4A	(903) 416 - 5525	(90)416-5563
BILL STOMBLE	NTIA	202-482-1850	202-482-4396
Partolis Michalogoelo	Stople 2 Johnson	(202) 429-64	202)429-3902
David Keir	Venenthal Sanks/TRW	202-429-5970	202-293-7783
Mbert Shuldiner	vinsen - & licins/jetsez 28	227-639-6722	22-687-6604
Julian Shepard	Vener Lipler foron	202-378-6111	202-371-6279
Stephen Goodman	ATET	202-371-9100	202-371-1497
Joshyn Read	FCC/18/SRD	202-739-0427	202-887-6121
Fern Jarmulneu	FCCIIB/SRD	202-739-0739	202-887-6126
Giselle Gomez	FCC [IB SRD	202-739-0737	202-887-6124
Karl Kensinger	FCCIEBISED	202-739-0742	/(
Jamiter Gilsonen	FOC TO SED	206-139-0736	n vi
HARRY NO	TEC/B/SRD	202-7-8-0744	

AGENDA FOR STATUS CONFERENCE ON GSO/FSS APPLICANTS FOR THE 20/30 GHZ BAND

October 26, 1995 FCC International Bureau 2:00-4:00 pm Room 825

- 1. Opening Remarks
- 2. ITU Submission of Appendix 4 for 28 GHz GSO/FSS Satellites
 - a. 2° spacing
 - b. Proposal for Generic Appendix 4 Form
- 3. Schedule
- 4. Other Business

Schedule For ITU Submissions

November 17, 1995

End of WRC-95.

November 3, 1995

- Report to Commission whether industry has reached consensus on orbital locations.
- If consensus has been reached, each company can prepare Appendix 4s for agreed upon slots including inter-satellite links.
- If no consensus has been reached, Commission will designate for each company the same number of slots as the number of satellites applied for and the company will prepare Appendix 4s for those slots without inter-satellite links.

November 8, 1995

• Applicants must submit Appendix 4s to the Commission and NTIA for review.

NTIA Address and contact:

Department of Commerce NTIA Room 4600 14th and Constitution Avenue, N.W. Washington, D.C. 20230 Attn: Mr. William Gamble

November 13/14, 1995

- Commission will submit to the ITU those Appendix 4s that are complete, accurate and received by the 8th.
- *** Appendix 4 submission for each orbital location is not to exceed 35 pages. ***

Frequency bands for inter-satellite links

Taking both government and non-government requirements into account, the entry for the inter-satellite link in the Appendix 4 submission should be

54.25-58.2 GHz 59-64 GHz 65-71 GHz¹ 116-126 GHz

Note 1: The use of any assignments in this band will be operated under ITU-RR 342 or subject to the result of future WRCs.

ITU-BR information pertaining to the government use of the 17.8-21.2 GHz and 30-31 GHz bands

USCSID-A1	0 EL
USCSID-A2	44 EL
USCSID-A3	75 EL
USCSID-A4	82 EL
USCSID-A5	92 EL
USCSID-A6	110 EL
USCSID-E1	10 WL
USCSID-E2	13 WL
USCSID-E3	24 WL
USCSID-E4	30 WL
USCSID-W1	141 WL
USCSID-W2	144 WL

USCSID-P

non-GSO (63°, 39400-1000 km, 8 satellites)

* * * * *

US334 In the band 17.8 - 20.2 GHz, Government space stations and associated earth stations in the fixed-satellite (space-to-Earth) service may be authorized on a primary basis. For a Government geostationary satellite network to operate on a primary basis, the space station shall be located outside the arc measured from East, 70° W to 120° W. Coordination between Government fixed-satellite systems and non-government systems operating in accordance with the United States Table of Frequency Allocation is required. (MO&O adopted on July 28, 1995 and released on July 31, 1995)

ITU information pertaining to Canadian GSO satellites using the 20/30 GHz band

CANSAT KA-1	107.3 WL
CANSAT KA-2	111.1 WL
CANSAT KA-3	118 7 WT.

(Day/Month/Year)	/ /	SATELLITE	FNOTICE NETWORK NDIX 4)	PAGE 1 OF	AP4
Serial Number		(/			
NOTIFYING ADMINSTRATION	RR1042	RR1047A		NOTIFICATION I	
	Y	est for Assistance of the IFRB		ADD MO	D SUP
SAM	PIE		ATION NO. OF NETWO	RK	
B. CHARACTERISTIC	CS OF THE NETWO	ORK			
1. NAME OF THE SPACES	STATION USASAT		:		
2. DATE OF BRINGING IN	O1 01 98		NCE TO PREVIOUS SPEC I NUMBER (if network mod		Number
3a. ADMINISTRATIONS IN	GROUP USA				
3b. OPERATING AGENCY	OR COMPANY 022	3c. ADMINIST	TRATION RESPONSIBLE	FOR THE STATION	USA
4. ORBITAL INFORMATIO	N				
a. FOR GEOSTATIO	NARY SATELLITES ONLY				
1. NOMINAL ORBITAL LONGITUDE	2. LONGITUDINAL TOLERAN	ICE 3. INCLINIATION EXCURSION	4. VISIBILITY ARC	5. SERVICE AR	c
LONGITODE	Degrees	EXCORSION	Degrees	Degr	965
Degrees E/W	To West To East	Degrees	From W E/M To E E/		To E E/W
36 • 0 E	0 • 1 0 • 1	0 • 1	18 W 44 E	18 W	44 E
6. REASON FOR SERVICE A	ARC < VISIBILITY ARC ATTACH	IED			;
b. FOR NON-GEOS	STATIONARY SATELLITES O	NLY			
1. INCLINATION ANGLE	2. PERIOD Days : D Hours	3. APOGEE	4. PERIGEE 5. C		NUMBER OF SATS.
Degrees	Hours : H Min	(km)	(km)		

GENERAL NOTES:

- This form of notice consists of four parts 1, 2, 3 et 4. In each part, each information item/data field includes a number in its label. This number is the same as that used for the same item in Appendix 4 (ORB-88) with the same part. For example, on the page labelled "Form AP4-2" (at the bottom), the field "4a1. Maximum power density" is the first item in section (a) of the paragraph numbered 4 in Part C.
 - The items from parts F and G of Appendix 4 have been included in the parts C and D referred to above. The items from these parts have the letters F and G (correspondingly) preceding the number that is included in their labels.
- Data items that are related are grouped together in a box. For example, the page labelled "Form AP4-2" (at the bottom) contains a box titled "Emissions and power characteristics". It is possible to specify 6 different emissions with the associated power and power density information in this box. If there are more emissions, use another page of the same type to provide additional data, after checking (X) the field labelled "More emissions on next page" on the preceding page. In all cases where there is more information than can fit in a box, follow this procedure.
- This form can be used to add, modify or suppress an existing station, by checking the corresponding box at the top right-hand corner of this page in the area titled "Notification intended for". In the case of a modification of an existing station, where certain data fields are to be added, modified or suppressed, provide ALL the data in the particular box as they would look after the change. In addition, indicate that the corresponding beam, associated station or frequency range value is being modified by entering M in the field that has been provided for this purpose at these levels.
- Certain fields in this notice form have a superscript "1" as part of their labels. This has the following meaning:
 - 1. This information is to be provided only if available.

S	ATELLII	E RECEIVING	ANTENNA E	BEAM DETAILS				PAGE 2 OF 27
	b. RECEIV	/ING BEAM DESI		CHARACTERIST KIR				ADD/MOD/SUP of the beam A
						e beam, the third ch I DESIGNATION		esignation shall be "R".
				ANTENNA CHA	RACTER	USTICS		
				+/- dBi				
	cl/d1/f1.	MAXIMUM ISO	TROPIC GAIN					
	g. POLA	RIZATION 1				TENNA GAIN CO	ONTOURS DIAGRA NO.:	ıM G2
		TENNA RADIATI IED. SEE FIGURI		DIAGRAM			GAIN DIAGRAM SEE FIGURE NO.:	VS ORBIT
		INFOR	MATION TO	BE PROVIDED FO	OR THIS F	RECEIVING AL	NTENNA BEAM	
2a. CI OF ST	LASS ATION	EC 2b. NAT		2a. CLASSOF STATION	2b. N	ATURE	6. RECEIVING SYS	STEM NOISE TEMPERATURE 800 Kelvins
2a. CI OF ST	LASS ATION	2b. NA		2a. CLASS OF STATION	_ 2b. N	ATURE RVICE	PERIOD OF VA	LIDITY 20 Years
	VICE ARI						OP /	SERVICE AREA ATTACHED SEE FIGURE NO.: G2
		3/Fb. FR	REQUENCY I	RANGE WITHIN W	НІСН ТН	E CARRIERS	WILL BE LOCA	TED
		Add/Mod/Sup of the freq. range	F	REQUENCY	k/M/G HZ	}	NTIFICATION NU	
	FROM	A		27500.0	M			
	ОТ	A		30000.0	M	[
		INFORM	ATION RELA	TED TO THE ASS	OCIATED	TRANSMITT	ING STATION(S)
				ISSIONS AND POWE				8. MODULATION CHARACTERISTICS
7/4a3 Fc/G2	NECESSARY La. DESIGNAT	BANDWIDTHOR TON OF EMISSION	4a2/4c. TOTAL PEAK POWER	4al MAXIMUM POWI DENSITY	R 4d. MIN PO	IMUM CARRIER F WER ^I S	d/G2b. SPACE/EARTH TATION E.I.R.P. 1	ATTACHED. SEE ATTACHMENT NO.1
			+/- dBW	+/- dBW/H2	+/-	dBW	+/- dBW	
	24M	OF3F	+ 20.0	- 50.3				
F. SI	PACE STAT	TION STICS OF TRANSMIT	TTING SPACE	ADD/MOD/SUP of the station	EART	H STATION		ADD/MOD/SUP of the station
ST	A HON FOR	SPACE-TO-SPACE R	ELAYS				AL EARTH STATION	
					Ty	pical 5.0 m		
		TELECOMMAND IN						pattern or provide diagram)
	ATT	ACHED. SEE ATTAC	HED NO.:		1	ITU-RS RR A		
MORE	EMISSIONS	ON NEXT PAGE	MORE ASSOC. STATIONS ON	TRANSMITTING X	4	b2. ANTENNA RAI	DIATION DIAGRAM A' SEE FIC	ITACHED GURE NO.:
	ADVC (+ C							

REMARKS * See Figure No. G2

NOTES ON FILLING IN THIS PAGE:
FOR EACH BEAM FIRST FILL IN THE BOX TITLED "CHARACTERISTICS OF THE BEAM".
FOR EACH BEAM FIRST FILL IN THE BOX TITLED "CHARACTERISTICS OF THE BEAM".
FOR EACH EARTH-TO-SPACE SERVICE AREA ASSOCIATED WITH THIS BEAM, FILL IN THE UPPER PORTION OF THE BOX TITLED "INFORMATION TO BE PROVIDED FOR THIS RECEIVING ANTENNA BEAM". FOR EACH SIZE (TYPE) OF TRANSMITTING EARTH STATION ANTENNA, FILL IN THE PORTION OF THE BOX TITLED "INFORMATION RELATED TO THE ASSOCIATED TRANSMITTING STATION(S)". USE ADDITIONAL PAGES AS NECESSARY. IF THIS IS A SPACE-TO-SPACE RELAY, IDENTIFY THE OTHER SPACE STATION(S) IN THE BOX TITLED "SPACE STATION", USING AS MANY PAGES AS NECESSARY.

SATELLITE RECEIVING ANTENNA BEAM DETAILS	PAGE 3 OF 27
5. CHARACTERISTICS OF THE BEAM	ADD/MOD/SUP
b. RECEIVING BEAM DESIGNATION K1R NOTE: For a steerable beam, the third character of the steerable beam, the state of the steerable beam.	of the beam A
OLD BEAM DESIGNATION (if changed	
ANTENNA CHARACTERISTICS	
+/- dBi	
c1/d1/f1. MAXIMUM ISOTROPIC GAIN + 35.0	
CARL ANTENNA CARL CONTOLIDS	DIAGRAM
ATTACHED. SEE FIGURE NO.:	DIAGRAM G2
e/f2. ANTENNA RADIATION PATTERN DIAGRAM ATTACHED. SEE FIGURE NO.: h. ESTIMATED ANTENNA GAIN DIAGRAM LONGITUDE ATTACHED. SEE FIGURE NO.:	
LONGITUDE ATTACHED. SEE FIGU	KE NO.:
INFORMATION TO BE PROVIDED FOR THIS RECEIVING ANTENNA	BEAM
2a. CLASS 2D. NATURE 2a. CLASS 2D. NATURE	IVING SYSTEM NOISE TEMPERATURE
OF STATION EC OF SERVICE CP OF STATION OF SERVICE	800 Kelvins
2a. CLASS 2b. NATURE 2a. CLASS 2b. NATURE PERIO	D OF VALIDITY 20 Years
OF STATION OF SERVICE OF STATION OF SERVICE	SERVICE AREA
1. SERVICE AREA *	OR ATTACHED SEE FIGURE NO.: G2
3/Fb. FREQUENCY RANGE WITHIN WHICH THE CARRIERS WILL BE	LOCATED
Add/Mod/Sup k/M/G IFRB IDENTIFICAT	
of the freq. range FREQUENCY HZ for modification	
FROM A 27500.0 M	
то A 30000.0 M	
INFORMATION RELATED TO THE ASSOCIATED TRANSMITTING STA	TION(S)
EMISSIONS AND POWER CHARACTERS	8. MODULATION
7/423 NECESSARY BANDWIDTHOR F://G22 DESIGNATION OF EMISSION PEAK POWER DENSITY 4a2/4c. TOTAL DENSITY 4a1. MAXIMUM POWER 4d. MINIMUM CARRIER Fd/G2b. SPAC DENSITY POWER STATION E.L.	CHARACTERISTICS ATTACHED. SEE ATTACHMENT NO.1
+/- dBW +/- dBW/Hz +/- dBW +/- dBV	ATTACIBILITIES.
24M0G7W + 28.0 - 43.3	
36M0G7W + 28.0 - 45.1	
6M00G1W + 13.3 - 52.0	=
	-
F. SPACE STATION CHARACTERISTICS OF TRANSMITTING SPACE of the station of the station	ADD/MOD/SUP A of the station
STATION FOR SPACE-TO-SPACE RELAYS a SPACE STATION NAME DESIGNATION OF TYPICAL EARTH S	TATION
Typical 6.1 m	J
G2c. TELECOMMAND INFORMATION 1	e reference pattern or provide diagram)
ATTACHED. SEE ATTACHED NO.: ITU-RS RR App 29 4b2. ANTENNA RADIATION DIA	GRAM ATTACHED
MORE EMISSIONS ON NEXT PAGE MORE ASSOC. TRANSMITTING X MORE ASSOC. TRANSMITTING X 462. ANTENNA RADIATION DIA STATIONS ON NEXT PAGE	SEE FIGURE NO.:
REMARKS * See Figure No. C2	

KEMAKKS * See Figure No. G2

NOTES ON FILLING IN THIS PAGE:
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S	ATELLIT	E RECEIVING	ANTENNA B	EAM DETAILS			P	AGE 4 OF 27
			5.	CHARACTERIST	CS OF T	HE BEAM		ADD/MOD/SUP
	b. RECEIV	ING BEAM DES	IGNATION	KIR				of the beam A
	•					e beam, the third ch 1 DESIGNATION		signation shall be "R".
				ANTENNA CHA				
				+/- dBi				
	c1/d1/f1.	MAXIMUM ISC	TROPIC GAIN	1 1 1				
					c2/d2 ANT	TENNA GAIN CO	NTOURS DIAGRAI	M [30
	-	RIZATION 1				D. SEE FIGURE		M G2
		TENNA RADIATI IED. SEE FIGURI		DIAGRAM			GAIN DIAGRAM V	
	ATTACI	ED. SEE FIGUR	E NO.:		LONGITU	DE ATTACHED.	SEE FIGURE NO.:	G3
		INFOR	MATION TO	BE PROVIDED FO	R THIS I	RECEIVING AN	NTENNA BEAM	
2a. CI	LASS ,	2b. NAT	URE	2a. CLASS	_ 2b. N.	ATURE	6. RECEIVING SYST	TEM NOISE TEMPERATURE
OF ST	ATION	EC OF SERV	VICE CP	OF STATION	OF SE	RVICE] [800 Kelvins
2a. CI	LASS	2b. NA'	TURE	2a. CLASS	_ 2b. N.	ATURE	PERIOD OF VAL	IDITY 20 Years
OF ST	ATION	OF SERV		OF STATION	OF SE			ERVICE AREA
l. SER	VICE ARI	EA *					OP A	TTACHED G2
		2/FL FT	EOLIENCY			TE CARRIERO		
		3/FD. FR Add/Mod/Sup	ŒQUENCY F	RANGE WITHIN W			NTIFICATION NUM	
		of the freq. range	F	REQUENCY	k/M/G HZ		edification/suppress	
	FROM	A		27500.0	M			
			<u> </u>			L		
	ОТ	A		30000.0	M	[
		INFORM	ATTON DEL A	TED TO THE ASS		TD A NICHTITI	NC STATION(S)	
Γ		HYPORIVI		ISSIONS AND POWER			ING STATION(S)	8. MODULATION
7/4a3	NECESSARY	BANDWIDTHOR TON OF EMISSION 1	4a2/4c. TOTAL PEAK POWER!	4al. MAXIMUM POWE			I/G2b. SPACE/EARTH	CHARACTERISTICS ATTACHED. SEE
100	a DESIGNAT	ION OF EMISSION	+/- dBW	DENSITY +/- dBW/Hz	+/-	dBW	+/- dBW	ATTACHMENT NO.1
	6M00	GIW	+ 20.9	- 44.4	77	usw	77- UB W	
	011100		1 20.7					
F. SI	ACE STAT	TION STICS OF TRANSMIT	TTING SPACE	ADD/MOD/SUP of the station	EART	H STATION		ADD/MOD/SUP A
ST	A HON FOR	SPACE-TO-SPACE R	ELAYS	or the station	DESIG	GNATION OF TYPICA	AL EARTH STATION	
		11 117 M78 b			Ту	pical 2.4 m		
	G2c.	TELECOMMAND IN	FORMATION		-	bl. RADIATION PA	TTERN (give reference p	pattern or provide diagram)
		ACHED. SEE ATTAC		· · · · · · · · · · · · · · · · · · ·		ITU-RS RR A	pp 29	
MORE	ORE EMISSIONS ON NEXT PAGE MORE ASSOC. TRANSMITTING					Ib2. ANTENNA RAD	IATION DIAGRAM AT SEE FIGU	
DEM			STATIONS ON I	NEXT PAGE				

REMARKS * See Figure No. G2

NOTES ON FILLING IN THIS PAGE:
FOR EACH BEAM FIRST FILL IN THE BOX TITLED "CHARACTERISTICS OF THE BEAM".
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S	SATELLITE RECEIVING ANTENNA BEAM DETAILS PAGE 5 OF 2				PAGE 5 OF 27			
			5.	CHARACTERISTIC	S OF T	HE BEAM		ADD/MOD/SUP
	b. RECEIV	VING BEAM DESI	GNATION	IS1				of the beam A
						beam, the third chi DESIGNATION		esignation shall be "R".
				ANTENNA CHAR			(0	
				ANTENNA CHAR	ACILA	101105		
				+/- dBi				
	c1/d1/f1.	MAXIMUM ISO	TROPIC GAIN	·				
	g. POLA	RIZATION 1					NTOURS DIAGRAI	м 🖂 📗
	e/f2. AN	 TENNA RADIATI	ON PATTERN			D. SEE FIGURE I	NO.: GAIN DIAGRAM V	(C ODDET
		ED. SEE FIGURI		11.			SEE FIGURE NO.:	G6
		INFOR	MATION TO	BE PROVIDED FOR	THIS F	ECEIVING AN	ITENNA BEAM	
2a. CI		2b. NAT	URE	2a. CLASS	2b. N	ATURE	6. RECEIVING SYS	TEM NOISE TEMPERATURE
OF ST	ATION	ES OF SERV	VICE CP	OF STATION	OF SE	RVICE		645 Kelvins
2a. CI	ASS ATION	2b. NA		2a. CLASS OF STATION	2b. N	ATURE	PERIOD OF VAL	LIDITY 20 Years
			, .CL	O'STATION	OI. SEE	· · · · · · · · · · · · · · · · · · ·		ERVICE AREA
. SER	VICE ARI	EA						EE FIGURE NO.:
		3/Fb. FF	REQUENCY I	RANGE WITHIN WH	ІСН ТН			
		Add/Mod/Sup of the freq. range			M/G łZ		NTIFICATION NUI	
	FROM					tor mo	dification/suppress	sion
	FROM	A		32000.0	M]			
	то	A		33000.0	M			·
		INFORM	ATION RELA	ATED TO THE ASSOC	CIATED	TRANSMITTI	NG STATION(S)	
			ЕМ	ISSIONS AND POWER C				8. MODULATION CHARACTERISTICS
7/4a3 Fc/G2	NECESSARY DESIGNAT	BANDWIDTHOR TON OF EMISSION	4a2/4c. TOTAL PEAK POWER	4a1. MAXIMUM POWER DENSITY	4d. MEN	IMUM CARRIER FO	VG2b. SPACE/EARTH	ATTACHED. SEE
			+/- dBW	+/- dBW/Hz	+/-	dBW	+/- dBW	ATTACIAMENT NO.
	500M	GIW	+ 15.9	- 68.6				
i 					<u> </u>			H
								님님
CF	ACE STAT	STICS OF TRANSMIT	TING SPACE	ADD/MOD/SUP of the station A	EART	H STATION		ADD/MOD/SUP of the station
ST	ATION FOR	SPACE-TO-SPACE RESTATION NAME	ELAYS		DESIG	GNATION OF TYPICA	AL EARTH STATION	
		USASAT	29D					
·	G2c	TELECOMMAND IN	FORMATION 1		4	bi. RADIATION PA	TTERN (give reference	pattern or provide diagram)
		ACHED. SEE ATTAC			[_	
MORE	EMISSIONS	ON NEXT PAGE	MORE ASSOC STATIONS ON	TRANSMITTING NEXT PAGE	4	b2. ANTENNA RAD	IATION DIAGRAM AT SEE FIGU	TACHED URE NO.:
	DK6	-						

NOTES ON FILLING IN THIS PAGE:
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SATELLITE RECEIVING ANTENNA BEAM DETAILS PAGE 6 OF 27					
5. CHARACTERISTICS OF THE BEAM ADD/MOD/SUP					
b. RECEIVING BEAM DESIGNATION IS2 NOTE: For a steerable beam, the third character of the beam designation shall be "R'	(
OLD BEAM DESIGNATION (if changed)					
ANTENNA CHARACTERISTICS	7				
+/- dBi					
c1/d1/f1. MAXIMUM ISOTROPIC GAIN + 53.4					
g. POLARIZATION 1 c2/d2. ANTENNA GAIN CONTOURS DIAGRAM ATTACHED. SEE FIGURE NO.:					
e/f2. ANTENNA RADIATION PATTERN DIAGRAM h. ESTIMATED ANTENNA GAIN DIAGRAM VS ORBIT					
ATTACHED. SEE FIGURE NO.: LONGITUDE ATTACHED. SEE FIGURE NO.: G7	\sqcup				
INFORMATION TO BE PROVIDED FOR THIS RECEIVING ANTENNA BEAM					
2a. CLASS OF STATION OF SERVICE 2b. NATURE OF SERVICE OF STATION OF SERVICE 2c. CLASS OF SERVICE OF SERVICE 6. RECEIVING SYSTEM NOISE TEMPERA OF SERVICE 6. RECEIVING SYSTEM NOISE TEMPERA CLASS OF SERVICE OF SERVICE OF SERVICE	TURE				
2a. CLASS 2b. NATURE 2a. CLASS 2b. NATURE PERIOD OF VALIDITY 20 Ye	MTS				
OF STATION OF SERVICE OF STATION OF SERVICE SERVICE AREA					
1. SERVICE AREA OR SEE FIGURE NO.:					
3/Fb. FREQUENCY RANGE WITHIN WHICH THE CARRIERS WILL BE LOCATED					
Add/Mod/Sup of the freq. range FREQUENCY HZ IFRB IDENTIFICATION NUMBER for modification/suppression					
FROM A 22550.0 M					
TO A 23550.0 M					
INFORMATION RELATED TO THE ASSOCIATED TRANSMITTING STATION(S)					
EMISSIONS AND POWER CHARACTERS 8. MODULATION CHARACTERISTIC					
7/4a3. NECESSARY BANDWIDTHOR ForG2a. DESIGNATION OF EMISSION PEAK POWER DENSITY 4a2/4c. TOTAL DENSITY 4a1. MAXIMUM POWER 4d. MINIMUM CARRIER Fd/G2b. SPACE/EARTH STATION E.I.R.P. ATTACHED. SEE ATTA	E				
+/- dBW +/- dBW/Hz +/- dBW +/- dBW					
500MG1W + 15.9 - 68.6					
F. SPACE STATION ADD/MOD/SUP (A) FARTH STATION ADD/MOD/SU					
CHARACTERISTICS OF TRANSMITTING SPACE STATION FOR SPACE TO SPACE DEL AVE of the station					
a. SPACE STATION NAME USASAT 29H DESIGNATION OF TYPICAL EARTH STATION					
4b1. RADIATION PATTERN (give reference pattern or provide diagra	m)				
G2c. TELECOMMAND INFORMATION ATTACHED. SEE ATTACHED NO.:	,				
MORE EMISSIONS ON NEXT PAGE MORE ASSOC. TRANSMITTING STATIONS ON NEXT PAGE SEE FIGURE NO.:					
REMARKS					
i					

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S.	ATELLI	E RECEIVING	ANTENNA BE	AM DETAILS				PAGE 7 OF 27
	b. RECEIV	/ING BEAM DES	•	HARACTERISTIC		•		ADD/MOD/SUP of the beam A
	:		, -			beam, the third ch DESIGNATION		designation shall be "R".
	***			ANTENNA CHAI	RACTER	LISTICS		
			ſ	+/- dBi				
	c1/ d1/f1 .	MAXIMUM ISC	L	+ 55.7				
	_	RIZATION 1		A		TENNA GAIN CO D. SEE FIGURE	NTOURS DIAGRA NO.:	M
		TENNA RADIATI IED. SEE FIGURI		11			GAIN DIAGRAM SEE FIGURE NO.:	VS ORBIT G8
		INFOR	MATION TO B	E PROVIDED FOR	R THIS F	RECEIVING AN	TENNA BEAM	
2a. CI OF ST.	ASS ATION	ES 2b. NAT OF SERV	- CID -	2a. CLASS OF STATION	2b. NA	ATURE	6. RECEIVING SY	STEM NOISE TEMPERATURE 645 Kelvins
2a. CI OF ST.	LASS ATION	2b. NA	' '	2a. CLASS OF STATION	2b. N	ATURE RVICE	PERIOD OF VA	
1. SER	VICE ARI	EA					ΩÞ.	SERVICE AREA ATTACHED SEE FIGURE NO.:
		3/Fb. FF	LEQUENCY RA	NGE WITHIN WE	IICH TH	E CARRIERS	WILL BE LOCA	TED
		Add/Mod/Sup of the freq. range	FRE		/M/G HZ	i	NTIFICATION NU	ì
	FROM	A	59	9000.0	M			
	то	A	64	4000.0	M			
		INFORM	ATION RELATI	ED TO THE ASSO	CIATED	TRANSMITTI	NG STATION(S	()
				SIONS AND POWER				8. MODULATION CHARACTERISTICS
7/4≥3. Fc/G2	necessary a. Designat	BANDWIDTHOR ION OF EMISSION	PEAK POWER	lal MAXIMUM POWER DENSITY	PO	WER ¹ ST	J/G2b. SPACE/EARTH FATION E.I.R.P. ¹	ATTACHED. SEE ATTACHMENT NO.I
	500M	GIW	+/- dBW + 18.7	+/- dBW/Hz	++4	dBW	+/- dBW	
F. SP	ACE STAT	ION		ADD/MOD/SUP A	EART	H STATION		ADD/MOD/SUP
	ATION FOR	STICS OF TRANSMIT SPACE-TO-SPACE R E STATION NAME		of the station	 		AL EARTH STATION	of the station
	a STAC	USASAT	29D					
	G2c.	TELECOMMAND IN	FORMATION I		4	bi. RADIATION PA	TTERN (give reference	pattern or provide diagram)
MORE	EMISSIONS	ON NEXT PAGE	MORE ASSOC. TRA		4	b2. ANTENNA RAD	IATION DIAGRAM A'	TTACHED GURE NO.:
DEMA	RKS							

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SATELLITE RECEIVING ANTENNA BEAM DETAILS PAGE 8 OF 27						
5. CHARACTERISTICS OF THE BEAM ADD/MOD/SUP						
b. RECEIVING BEAM DESIGNATION IS4						
NOTE: For a steerable beam, the third character of the beam designation shall be "R". OLD BEAM DESIGNATION (if changed)						
ANTENNA CHARACTERISTICS						
c1/d1/f1. MAXIMUM ISOTROPIC GAIN + 55.7						
2422 ANTENDIA CADI CONTOUTE DIACEAN						
g. POLARIZATION 1 CZ/GZ. ANTENNA GAIN CONTOURS DIAGRAM ATTACHED. SEE FIGURE NO.:						
e/f2. ANTENNA RADIATION PATTERN DIAGRAM ATTACHED. SEE FIGURE NO.: h. ESTIMATED ANTENNA GAIN DIAGRAM VS ORBIT LONGITUDE ATTACHED. SEE FIGURE NO.: G9						
INFORMATION TO BE PROVIDED FOR THIS RECEIVING ANTENNA BEAM						
2a. CLASS OF STATION OF SERVICE 2b. NATURE OF STATION OF SERVICE 2c. CLASS OF SERVICE OF STATION OF SERVICE 6. RECEIVING SYSTEM NOISE TEMPERATURE SYSTEM NOISE TEMPERATURE SYSTEM NOISE TEMPERATURE SYSTEM NOISE TEMPERATUR						
2a. CLASS 2b. NATURE 2a. CLASS 2b. NATURE PERIOD OF VALIDITY 20 Years OF STATION OF SERVICE SERVICE SERVICE ADDA						
1. SERVICE AREA OR SERVICE AREA ATTACHED SEE FIGURE NO.:						
3/Fb. FREQUENCY RANGE WITHIN WHICH THE CARRIERS WILL BE LOCATED						
Add/Mod/Sup of the freq. range FREQUENCY HZ for modification/suppression						
FROM A 54250.0 M						
то A 58200.0 M						
INFORMATION RELATED TO THE ASSOCIATED TRANSMITTING STATION(S)						
EMISSIONS AND POWER CHARACTERS 8. MODULATION CHARACTERISTICS						
7/423. NECESSARY BANDWIDTHOR 42/4c. TOTAL 421. MAXIMUM POWER 4d. MINIMUM CARRIER Fd/G2b. SPACE/EARTH STATION E.I.R.P. ATTACHED. SEE ATTACHED. SEE ATTACHED. SEE						
+/- dBW +/- dBW/Hz +/- dBW +/- dBW						
500MG1W + 18.7 - 65.8						
F. SPACE STATION CHARACTERISTICS OF TRANSMITTING SPACE STATION FOR SPACE TO-SPACE RELAYS ADD/MOD/SUP Of the station Of the station						
SPACE STATION NAME DESIGNATION OF TYPICAL EARTH STATION						
USASAT 29H						
G2c TELECOMMAND INFORMATION 451. RADIATION PATTERN (give reference pattern or provide diagram) ATTACHED. SEE ATTACHED NO.:						
MORE EMISSIONS ON NEXT PAGE MORE ASSOC. TRANSMITTING STATIONS ON NEXT PAGE STATIONS ON NEXT PAGE						
REMARKS						

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	D. SAT	ELLITE NET	WORK CHA	RACTERISTICS IN	THE	SPACE-TO-E	EARTH DIRECT	TION
-	SATEL	LITE TRANSM	ITTING ANI	ENNA BEAM DETA	ILS			PAGE 9 OF 27
	5. CHARACTERISTIC b. TRANSMITTING BEAM DESIGNATION KIR							ADD/MOD/SUP of the beam A
	-					DESIGNATION		designation shall be "R".
				ANTENNA CHAR	RACTER	USTICS		
	c1/ d1/f1 .	MAXIMUM ISO	TROPIC GAIN	+/- dBi + 35.0				
	g. POLA	RIZATION 1		c2	2/d2. AN		ONTOURS DIAGRA	
		TENNA RADIATI IED. SEE FIGURI		DIAGRAM h.		ATED ANTENNA	A GAIN DIAGRAM TTACHED. SEE FIG	VS ORBIT
		INFOR	MATION TO	BE PROVIDED FOR	THIS T	RANSMITTI	NG ANTENNA B	EAM
2a. CI OF ST	LASS ATION [2b. NATO EC OF SERV		2a. CLASS OF STATION	2b. NA OF SE	1		[88]
2a. Cl OF ST	LASS ATION [2b. NATO		2a. CLASS OF STATION		TURE	PERIOD OF VA	SERVICE AREA
1. SER	VICE ARE	EA *						ATTACHED SEE FIGURE NO.: G2
		3/Fb. FI	REQENCY RA	NGE WITHIN WHIC	CH THE			
		Add/Mod/Sup of the freq. range	FI	REQUENCY	k/M/G HZ	l .	ENTIFICATION NU nodification/suppres	· · · =
	FROM	Α		17700.0	M			
	то	A		20200.0	M			
		SPACE STATIC		IS AND ASSOCIATE			ION(S) INFORM	ATION
6/4-3	NECESSABA	A AMPHODE I OR	EMI 4a2/4b. TOTAL	ISSIONS AND POWER (TERS	Fd. SPACE/EARTH	7. MODULATION CHARACTERISTICS
Fc/G:	BESIGNAT	BANDWIDTH OR ION OF EMISSION	PEAK POWER	POWER DENSITY		VER	STATION E.I.R.P.1	ATTACHED. SEE ATTACHMENT NO.1
	24M	0F3F	+/- dBW + 23.0	+/- dBW/Hz	+/-	dBW	+/- dBW	
F. SI	PACE STATI JARACTERIS ATION FOR	TION STICS OF RECEIVIN SPACE-TO-SPACE R	G SPACE ELAYS	ADD/MOD/SUP of the station		H STATION		ADD/MOD/SUP A
	a. SI	PACE STATION NAME		 :		of typical eart pical 5.0 m	IH STATION	
<u> </u>	G3c.	BEACON AND TEL INFORMATION AT	TACHED. I		1	J-RS RR App	N (give reference pattern	or provide diagram) 8a. RECEIVING SYSTEM NOISE TEMPERATURE
MORE	EMISSIONS	SEE ATTAC	MORE ASS	OC. RECEIVING X	8b2. AN	TENNA RADIATIO	N DIAGRAM ATTACH SEE FIGURE N	ED Kelvins
REMA	ARKS * Sec	Figure No. G2						

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STATION". USE AS MANY PAGES AS NECESSARY.
FORM AP4-3

	D. SATELLITE NETWORK CHARACTERISTICS IN THE SPACE-TO-EARTH DIRECTION SATELLITE TRANSMITTING ANTENNA BEAM DETAILS PAGE 10 OF 27							
	b. TRANS	SMITTING BEAM		CHARACTERISTIC	S OF T	HE BEAM	- 	ADD/MOD/SUP of the beam A
	NOTE: For					e beam, the third of DESIGNATIO		lesignation shall be "R".
				ANTENNA CHAR			TV(II changed)	
				+/- dBi				
	c1/d1/f1.	. MAXIMUM ISO	OTROPIC GAIN	+ 35.0				
	g. POLA	RIZATION 1		c2	vd2. AN		CONTOURS DIAGRA ED. SEE FIGURE N	(1 + / 1))
		TENNA RADIAT TED. SEE FIGUR		IAGRAM h.			A GAIN DIAGRAM TTACHED. SEE FIC	
		INFO	RMATION TO	BE PROVIDED FOR	THIS	TRANSMITTI	NG ANTENNA B	EAM
2a. CI	LASS ATION	2b. NAT OF SERV		2a. CLASS	2b. NA			
2a. CI				OF STATION	OF SE		PERIOD OF VA	LIDITY 20 Years
1	ATION	2b. NAT OF SER	1 1	2a. CLASS OF STATION		RVICE		SERVICE AREA
1. SER	VICE ARI	EA * _					OP /	ATTACHED SEE FIGURE NO.: G2
		3/ Fb . F	REQENCY RA	NGE WITHIN WHIC	CH THE			
		Add/Mod/Sup of the freq. range	FR	EQUENCY	k/M/G HZ	1	ENTIFICATION NU nodification/suppres	•
	FROM	A		17700.0	M			
	то	A		20200.0	M			
		SPACE STATIO	ON EMISSION	S AND ASSOCIATE	D REC	EIVING STAT	TON(S) INFORM	ATION
6/423	NECESSARY	V BANDWIDTH OR	EMIS 4a2/4b. TOTAL	SSIONS AND POWER (4a1/G3b. MAXIMUM		TERS	Fd. SPACE/EARTH	7. MODULATION CHARACTERISTICS
Fe/G3	a DESIGNAT	Y BANDWIDTH OR TON OF EMISSION	PEAK POWER 1	POWER DENSITY	POV	VERI	STATION E.I.R.P.	ATTACHED. SEE ATTACHMENT NO.I
	24M0	OG7W	+/- dBW + 23.0	- 48.3	+/-	dBW	+/- d BW	
	·	OG7W	+ 23.0	- 50.1		*		
i								
E CE	ACE STAT	FION						
CI ST	IARACTERI ATION FOR	TION STICS OF RECEIVIN SPACE-TO-SPACE F	IG SPACE RELAYS	ADD/MOD/SUP of the station		'H STATION OF TYPICAL EAR'	TH STATION	ADD/MOD/SUP of the station
	a. S1	PACE STATION NAME			Ту	pical 3.0 m		
	G3c	BEACON AND TEL			1	ADIATION PATTEI J-RS RR Ap	RN (give reference pattern	8a. RECEIVING
MORE	EMISSIONS	INFORMATION AT SEE ATTAC ON NEXT PAGE	HED NO.	OC. RECEIVING	<u> </u>		DN DIAGRAM ATTACHE SEE FIGURE NO	SYSTEM NOISE TEMPERATURE Kelvine 125
			STATIONS	ON NEXT PAGE X				
REMA	KKS * Se	e Figure No. G2						

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FORM AP4-3

•			•	RACTERISTICS II TENNA BEAM DETA		SPACE-10-I		FION PAGE 11 OF 27
								ADD/MOD/SUP of the beam A lesignation shall be "R".
				ANTENNA CHAI	RACTER	USTICS		
	c1/ d1/f1	MAXIMUM ISO	OTROPIC GAIN	+/- dBi + 35.0				
	g. POLA	RIZATION 1		c:	2/d2. AN		ONTOURS DIAGRA ED. SEE FIGURE N	
		TENNA RADIATI HED. SEE FIGURI		DIAGRAM h		ATED ANTENN	A GAIN DIAGRAM TTACHED. SEE FIC	VS ORBIT
		INFOR	MATION TO	BE PROVIDED FOR	THIS T	RANSMITTI	NG ANTENNA BI	EAM
2a. CI	ATION LASS	2b. NATO OF SERV	ICE CP	2a. CLASS OF STATION 2a. CLASS	2b. NA OF SEI		PERIOD OF VA	LIDITY 20 Years
OF ST	ATION	OF SERV	/ICE	OF STATION	OF SE	RVICE		SERVICE AREA
1. SER	VICE ARI	EA *					OR (SEE FIGURE NO.: G2
		· · · · · · · · · · · · · · · · · · ·	REQENCY RA	ANGE WITHIN WHI				
	l	Add/Mod/Sup of the freq. range	F	REQUENCY	k/M/G HZ		ENTIFICATION NUmodification/suppres	į.
	FROM	A		17700.0	M			
	то	A		20200.0	M			
		SPACE STATIC	ON EMISSION	NS AND ASSOCIATI	ED REC	EIVING STAT	TION(S) INFORM	ATION
				ISSIONS AND POWER			C) CDA CECA DETT	7. MODULATION CHARACTERISTICS
6/4±3 Fc/G:	NECESSARY Ba. DESIGNAT	Y BANDWIDTH OR TON OF EMISSION	4a2/4b. TOTAL PEAK POWER	4a1/G3b. MAXIMUM POWER DENSITY		IEMUM CARRIER VER ^I	Fd. SPACE/EARTH STATION E.I.R.P.	ATTACHED. SEE ATTACHMENT NO. ¹
	6 M0 0	DG1W	+/- dBW + 17.0	- 48.3	+/-	dBW	+/- d BW	
CH	ACE STAT	STICS OF RECEIVIN	G SPACE	ADD/MOD/SUP of the station	EART	H STATION		ADD/MOD/SUP A
31		SPACE-TO-SPACE R PACE STATION NAME	ELA I S		11	of typical ear	TH STATION	
							RN (give reference pattern	or provide diagram)
	G3c	BEACON AND TEL	TACHED. 1		IT	J-RS RR Ap	p 29	8a. RECEIVING SYSTEM NOBE TRANSPANTER
MORE	EMISSIONS	ON NEXT PAGE	MORE ASS	SOC. RECEIVING X	8b2. AN	TENNA RADIATIO	ON DIAGRAM ATTACHI SEE FIGURE N	
REMA	ARKS * Se	e Figure No. G2						

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FORM AP4-3

	D. SAT	ELLITE NETV	VORK CHARAC	TERISTICS IN	THE !	SPACE-TO-E		
	SATEL	LITE TRANSM	ITTING ANTENN	A BEAM DETA	ILS		I	PAGE 12 OF 27
	b. TRANS	SMITTING BEAM	5. CHA DESIGNATION KI	NOTE: For:	a steerable			ADD/MOD/SUP of the beam A esignation shall be "R".
1			Al	NTENNA CHAR			(ii changed)	<u> </u>
				dBi	JAC 121			
	c1/d1/f1.	MAXIMUM ISC	TROPIC GAIN +	35.0				
	g. POLA	RIZATION 1		c2	/d2. AN7		ONTOURS DIAGRA D. SEE FIGURE NO	ICIZI II
		TENNA RADIATI IED. SEE FIGURI	ON PATTERN DIAGI ENO.:	RAM h.			GAIN DIAGRAM V TACHED. SEE FIG	(Table 1
		INFOR	MATION TO BE P	ROVIDED FOR	THIS T	RANSMITTIN	IG ANTENNA BE	EAM
2a. CI OF ST	LASS ATION	2b. NATT EC OF SERV		CLASS STATION	2b. NA	1 1		
2a. CI	LASS ATION	2b. NATT		CLASS STATION		TURE RVICE	PERIOD OF VAI	LIDITY 20 Years
L	VICE ARI]	OR A	ERVICE AREA TTACHED EE FIGURE NO.: G2
		3/Fb. FF	EQENCY RANGE	WITHIN WHIC	CH THE	CARRIERS W	ILL BE LOCATI	ED
		Add/Mod/Sup of the freq. range	FREQU	ENCY	k/M/G HZ		NTIFICATION NU	
	FROM	A	177	00.0	M			
	ОТ	A	202	200.0	M			
,		SPACE STATIC	N EMISSIONS AN	ND ASSOCIATE	D RECI	EIVING STATI	ION(S) INFORM	ATION
				NS AND POWER (7. MODULATION CHARACTERISTICS
fv4a3 Fc/G	NECESSARY 3a. DESIGNAT	Y BANDWIDTH OR TION OF EMISSION 1	PEAK POWER PO	1/G3b. MAXIMUM OWER DENSITY		IIMUM CARRIER VER ^I	Fd. SPACE/EARTH STATION E.I.R.P. ¹	ATTACHED. SEE ATTACHMENT NO. ¹
	6 M 00	OGIW	+/- dBW + 16.0	+/- dBW/Hz - 49.3	+/-	dBW	+/- dBW	
F. SI	PACE STAT	TION	Δ1	DD/MOD/SUP	EADT	H STATION		ADD/MOD/SUP A
Či Si	A HON FOR	TION ISTICS OF RECEIVIN I SPACE-TO-SPACE R PACE STATION NAME	G SPACE ELAYS	of the station	ТҮРЕ	OF TYPICAL EART	H STATION	of the station
						pical 6.1 m	N (give reference pattern	or provide diagram)
	G3c. BEACON AND TELEMETRY INFORMATION ATTACHED. I SEE ATTACHED NO.:				ITU	J-RS RR App	29	8a. RECEIVING SYSTEM NOISE TEMPERATURE
MORE	EMISSIONS	ON NEXT PAGE	MORE ASSOC. RI STATIONS ON NE		802. AN	TENNA KADIA HOI	N DIAGRAM ATTACHE SEE FIGURE NO	
REM	ARKS * Se	æ Figure No. G2						

SATELLITE NET WORK CHARACTERISTICS II	
	CS OF THE BEAM ADD/MOD/SUP of the beam A a steerable beam, the third character of the beam designation shall be "R". D BEAM DESIGNATION (if changed)
ANTENNA CHAI	
g. POLARIZATION 1 e/12. ANTENNA RADIATION PATTERN DIAGRAM h	2/d2. ANTENNA GAIN CONTOURS DIAGRAM ATTACHED. SEE FIGURE NO.: ESTIMATED ANTENNA GAIN DIAGRAM VS ORBIT
ATTACHED. SEE FIGURE NO.:	LONGITUDE ATTACHED. SEE FIGURE NO.: G6
INFORMATION TO BE PROVIDED FOR	R THIS TRANSMITTING ANTENNA BEAM
2a. CLASS OF STATION ER 2b. NATURE OF STATION 2a. CLASS OF STATION 2b. NATURE OF STATION 2c. CLASS OF STATION 2c. CLASS OF STATION	2b. NATURE OF SERVICE 2b. NATURE PERIOD OF VALIDITY 20 Years
OF STATION OF SERVICE OF STATION SERVICE AREA *	OF SERVICE SERVICE AREA ATTACHED SEE FIGURE NO.: G5
3/Fb. FREQENCY RANGE WITHIN WHI	CH THE CARRIERS WILL BE LOCATED
Add/Mod/Sup of the freq. range FREQUENCY	k/M/G IFRB IDENTIFICATION NUMBER HZ for modification/suppression
FROM A 27500.0	M
то А 27501.0	M
SPACE STATION EMISSIONS AND ASSOCIATE	ED RECEIVING STATION(S) INFORMATION
EMISSIONS AND POWER (1443 NECESSARY BANDWIDTH OR 4a2/4b. TOTAL 4a1/G3b. MAXIMUM	CHARACTERISTICS
6/443 NECESSARY BANDWIDTH OR FUGG34 DESIGNATION OF EMISSION PEAK POWER POWER DENSITY	POWER! STATION E.I.R.P.! ATTACHED. SEE
1M00G2D - 1.6 - 59.1	+/- dBW +/- dBW
F. SPACE STATION CHARACTERISTICS OF RECEIVING SPACE STATION FOR SPACE-TO-SPACE RELAYS SPACE STATION NAME ADD/MOD/SUP of the station	EARTH STATION ADD/MOD/SUP of the station TYPE OF TYPICAL EARTH STATION
J. SPACE STATION NAME	Typical 10M
G3c. BEACON AND TELEMETRY INFORMATION ATTACHED I SEE ATTACHED NO.	8b1. RADIATION PATTERN (give reference pattern or provide diagram) ITU-RS RR App 29 8a. RECEIVING SYSTEM NOISE TEMPERATURE 8b2. ANTENNA RADIATION DIAGRAM ATTACHED Kelvins
MORE EMISSIONS ON NEXT PAGE MORE ASSOC RECEIVING STATIONS ON NEXT PAGE	SEE FIGURE NO.: 120
REMARKS * See Figure No. G5	

NOTES ON FILLING IN THIS PAGE:
FOR EACH BEAM FIRST FILL IN THE BOX TITLED "CHARACTERISTICS OF THE BEAM".
FOR EACH SPACE-TO-EARTH SERVICE AREA ASSOCIATED WITH THIS BEAM. FILL IN THE UPPER PORTION OF THE BOX TITLED "INFORMATION TO BE PROVIDED FOR THIS
TRANSMITTING ANTENNA BEAM". ALSO PROVIDE THE "EMISSION AND POWER CHARACTERISTICS" FOR THIS TRANSMITTING ANTENNA BEAM. FOR EACH SIZE (TYPE) OF RECEIVING
EARTH STATION PROVIDE THE EARTH STATION DETAILS AS SPECIFIED. IF THIS IS A SPACE-TO-SPACE RELAY, IDENTIFY THE OTHER SPACE STATION(S) IN THE BOX TITLED "SPACE
STATION". USE AS MANY PAGES AS NECESSARY.
FORM AP4-3

SATELLITE RETWORK CHARACTERISTICS IN THE SPACE-TO-EARTH DIRECTION SATELLITE TRANSMITTING ANTENNA BEAM DETAILS PAGE 14 OF 27						
	E BEAM ADD/MOD/SUP of the beam A beam, the third character of the beam designation shall be "R". DESIGNATION (if changed)					
ANTENNA CHARACTERI	STICS					
c1/d1/f1. MAXIMUM ISOTROPIC GAIN + 21.6						
g. POLARIZATION 1 c2/d2. ANTI	ENNA GAIN CONTOURS DIAGRAM ATTACHED, SEE FIGURE NO.:					
	TED ANTENNA GAIN DIAGRAM VS ORBIT ONGITUDE ATTACHED. SEE FIGURE NO.: G6					
INFORMATION TO BE PROVIDED FOR THIS T	RANSMITTING ANTENNA BEAM					
2a. CLASS 2b. NATURE 2a. CLASS 2b. NATOR OF STATION ER OF SERVICE CP 2a. CLASS OF SERVICE OF STATION OF SERVICE CP	VICE					
2a. CLASS 2b. NATURE 2a. CLASS 2b. NATOR OF STATION OF SERVICE OF STATION OF SER						
1. SERVICE AREA *	OR ATTACHED SEE FIGURE NO.: G5					
3/Fb. FREQENCY RANGE WITHIN WHICH THE						
Add/Mod/Sup k/M/G of the freq. range FREQUENCY HZ	IFRB IDENTIFICATION NUMBER for modification/suppression					
FROM A 29999.0 M						
TO A 30000.0 M						
SPACE STATION EMISSIONS AND ASSOCIATED RECE	IVING STATION(S) INFORMATION					
EMISSIONS AND POWER CHARACT	CHARACTERISTICS					
6/4a3 NECESSARY BANDWIDTH OR FORGJA DESIGNATION OF EMISSION PEAK POWER POWER DENSITY POW	MUM CARRIERI Fd. SPACE/EARTH ATTACHED, SEE					
1M00G2D +/- dBW +/- dBW/Hz +/- 59.1	dBW +/- dBW					
CHARACTERISTICS OF RECEIVING SPACE of the station	STATION ADD/MOD/SUP A of the station					
Typi	of typical earth station ical 10M					
	PARTIERN (give reference pattern or provide diagram) -RS RR App 29 8a. RECEIVING SYSTEM NOISE					
SEE ATTACHED NO	ENNA RADIATION DIAGRAM ATTACHED SEE FIGURE NO.: TEMPERATURE Kelvias 120					

REMARKS * See Figure No. G5

	D. SATELLITE NETWORK CHARACTERISTICS IN THE SPACE-TO-EARTH DIRECTION						
۲	SATELLITE TRANSI						PAGE 15 OF 27
			ACTERISTIC	S OF T	IE BEAM		ADD/MOD/SUP of the beam A
	b. TRANSMITTING BEAM DESIGNATION IS1 NOTE: For				beam, the third	character of the beam	designation shall be "R".
		•			DESIGNATIO	N (if changed)	
		AN	TENNA CHAR	LACTER	ISTICS		
		+/-	dBi				
	cl/dl/fl. MAXIMUM IS	OTROPIC GAIN +	53.4				
	g. POLARIZATION 1		c2	Vd2. ANT		CONTOURS DIAGR TED. SEE FIGURE 1	1 1 1
	e/f2. ANTENNA RADIAT	 ION PATTERN DIAGRA	AM h.	ESTIMA		A GAIN DIAGRAM	11
	ATTACHED. SEE FIGUR	E NO.:			LONGITUDE A	TTACHED. SEE FI	GURE NO.: G6
	INFO	RMATION TO BE PR	OVIDED FOR	THIS T	RANSMITTI	NG ANTENNA B	BEAM
2a. C	LASS 2b. NAT			2b. NA			
	TATION ES OF SER	i Can I	ATION	OF SEF	1 1		
2a. C	LASS 2b. NAT	URE 2a. C	LASS	2b. NA	TURE	PERIOD OF VA	ALIDITY 20 Years
OF ST	TATION OF SER	VICE OF ST	ATION	OF SE	RVICE		SERVICE AREA
ı. SEF	RVICE AREA					OR	ATTACHED SEE FIGURE NO.:
	3/Fb. F	REQENCY RANGE V	WITHIN WHIC	CH THE	CARRIERS	WILL BE LOCAT	TED
	Add/Mod/Sup			k/M/G		ENTIFICATION N	
	of the freq. range	·		HZ	for n	nodification/suppre	ssion
	FROM	3200	0.0	M			
	то А	3300	0.0	M			
	SPACE STATI	ON EMISSIONS AND				TION(S) INFORM	1
6/4a	3 NECESSARY BANDWIDTH OR		GAND POWER (TERS IMUM CARRIER	Fd. SPACE/EARTH	7. MODULATION CHARACTERISTICS ATTACHED. SEE
Fc/G	3a DESIGNATION OF EMISSION	PEAK POWER POW	VER DENSITY	POV	/ER ⁱ	STATION E.I.R.P.1	ATTACHMENT NO.
	500MG1W	+/- dBW +/- + 15.9 -	68.6	+/-	dBW	+/- dBW	
	JOON'G TW	+ 15.9	08.0				
E C	DACE STATION						
C	PACE STATION HARACTERISTICS OF RECEIVE TATION FOR SPACE-TO-SPACE	IG SPACE of	MOD/SUP A		H STATION		ADD/MOD/SUP of the station
	4 SPACE STATION NAME	AT29H		TYPE	OF TYPICAL EAR	IH STATION	
				861. RA	DIATION PATTE	RN (give reference patter	, -
	G3c. BEACON AND TEI INFORMATION AT SEE ATTAC	TACHED.1					8a. RECEIVING Sy stem noise Te mperature
MORE	ORE EMISSIONS ON NEXT PAGE MORE ASSOC. RECEIVING				TENNA RADIATIO	ON DIAGRAM ATTACH SEE FIGURE N	IED Kelvins
		STATIONS ON NEXT	T PAGE				
REM.	ARKS						

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EARTH STATION PROVIDE THE EARTH STATION DETAILS AS SPECIFIED. IF THIS IS A SPACE-TO-SPACE RELAY, IDENTIFY THE OTHER SPACE STATION(S) IN THE BOX TITLED "SPACE
STATION". USE AS MANY PAGES AS NECESSARY.
FORM AP4-3

D. SATELLITE NETWORK CHARACTERISTICS IN THE SPACE-TO-EARTH I SATELLITE TRANSMITTING ANTENNA BEAM DETAILS	PAGE 16 OF 27
5. CHARACTERISTICS OF THE BEAM b. TRANSMITTING BEAM DESIGNATION IS2	ADD/MOD/SUP of the beam A
NOTE: For a steerable beam, the third character of the OLD BEAM DESIGNATION (if change	
. ANTENNA CHARACTERISTICS	
+/- d B i	
c1/d1/f1. MAXIMUM ISOTROPIC GAIN + 53.4 c2/d2. ANTENNA GAIN CONTOURS	DIAGRAM
g. POLARIZATION 1 CZ/dZ. ANTENNA GAIN CONTOURS ATTACHED. SEE FI	
e/i2. ANTENNA RADIATION PATTERN DIAGRAM h. ESTIMATED ANTENNA GAIN DI ATTACHED. SEE FIGURE NO.: LONGITUDE ATTACHED.	
INFORMATION TO BE PROVIDED FOR THIS TRANSMITTING ANTE	NNA BEAM
a. CLASS 2b. NATURE 2a. CLASS 2b. NATURE FSTATION ES OF SERVICE CP OF STATION OF SERVICE	
a. CLASS 2b. NATURE 2a. CLASS 2b. NATURE FSTATION OF SERVICE OF STATION OF SERVICE	DOF VALIDITY 20 Years SERVICE AREA
SERVICE AREA	OR ATTACHED SEE FIGURE NO.:
3/Fb. FREQENCY RANGE WITHIN WHICH THE CARRIERS WILL BE I	
Add/Mod/Sup of the freq. range FREQUENCY HZ for modification	
FROM A 22550.0 M	
TO A 23550.0 M	
SPACE STATION EMISSIONS AND ASSOCIATED RECEIVING STATION(S) IN	FORMATION
EMISSIONS AND POWER CHARACTERS 6/4a3. NECESSARY BANDWIDTH OR. 4a2/4b. TOTAL 4a1/G3b. MAXIMUM 4C. MINIMUM CARRIER Fd. SPACE/	7. MODULATION CHARACTERISTICS ATTACHED, SEE
FUG3. DESIGNATION OF EMISSION PEAK POWER POWER DENSITY POWER! STATION E	ATTACHMENT NO.1
500MG1W + 15.9 - 68.6 +/- dBW/Hz +/- dBW	
F. SPACE STATION CHARACTERISTICS OF RECEIVING SPACE STATION FOR SPACE-TO-SPACE RELAYS SPACE STATION NAME ADD/MOD/SUP of the station TYPE OF TYPICAL EARTH STATION	ADD/MOD/SUP of the station
USASAT29D 8b1. RADIATION PATTERN (give refere	nce pattern or provide disassam)
G3c. BEACON AND TELEMETRY INFORMATION ATTACHED. SEE ATTACHED NO: 8b2. ANTENNA RADIATION DIAGRAM	8a. RECEIVIN SYSTEM NOIS TEMPERATUR
	FIGURE NO.:

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EARTH STATION PROVIDE THE EARTH STATION DETAILS AS SPECIFIED. IF THIS IS A SPACE-TO-SPACE RELAY, IDENTIFY THE OTHER SPACE STATION(S) IN THE BOX TITLED "SPACE
STATION". USE AS MANY PAGES AS NECESSARY.
FORM AP4-3

REMARKS

D. SATELLITE NETWORK CHARACTERISTICS IN	
SATELLITE TRANSMITTING ANTENNA BEAM DETAIL	
5. CHARACTERISTICS b. TRANSMITTING BEAM DESIGNATION IS3	OF THE BEAM ADD/MOD/SUP of the beam A steerable beam, the third character of the beam designation shall be "R".
	BEAM DESIGNATION (if changed)
ANTENNA CHARA	ACTERISTICS
+/-I dBi	
c1/d1/f1. MAXIMUM ISOTROPIC GAIN + 55.7	
g. POLARIZATION 1 c2/c	d2. ANTENNA GAIN CONTOURS DIAGRAM ATTACHED. SEE FIGURE NO.:
e/f2. ANTENNA RADIATION PATTERN DIAGRAM h. ATTACHED. SEE FIGURE NO.:	ESTIMATED ANTENNA GAIN DIAGRAM VS ORBIT LONGITUDE ATTACHED. SEE FIGURE NO.: G8
INFORMATION TO BE PROVIDED FOR	THIS TRANSMITTING ANTENNA BEAM
2a. CLASS 2b. NATURE 2a. CLASS	2b. NATURE
OF STATION ES OF SERVICE CP OF STATION	OF SERVICE PERIOD OF VALIDITY 20 Years
2a. CLASS OF STATION OF SERVICE 2a. CLASS OF STATION OF STATION	2b. NATURE OF SERVICE
. SERVICE AREA	SERVICE AREA OR ATTACHED SEE FIGURE NO.:
3/Fb. FREQENCY RANGE WITHIN WHIC	H THE CARRIERS WILL BE LOCATED
Add/Mod/Sup of the freq. range FREQUENCY	HZ IFRB IDENTIFICATION NUMBER for modification/suppression
FROM A 59000.0	M
то А 64000.0	M
SPACE STATION EMISSIONS AND ASSOCIATED	D RECEIVING STATION(S) INFORMATION
EMISSIONS AND POWER CI	CHARACTERISTICS
Fc/G3a DESIGNATION OF EMISSION PEAK POWER POWER POWER DENSITY	POWER ¹ STATION E.I.R.P.1 ATTACHMENT NO.I
500MGIW + 18.7 - 65.8	+/- dBW +/- dBW
350,131,17	
F. SPACE STATION CHARACTERISTICS OF RECEIVING SPACE STATION FOR SPACE-TO-SPACE RELAYS ADD/MOD/SUP of the station	EARTH STATION ADD/MOD/SUP of the station
J. SPACE STATION NAME USASAT29H	TYPE OF TYPICAL EARTH STATION
G3c. BEACON AND TELEMETRY INFORMATION ATTACHED. SEE ATTACHED NO.:	8b1. RADIATION PATTERN (give reference pattern or provide diagram) **RECEIVING SYSTEM NOISE TEMPERATURE
MORE EMISSIONS ON NEXT PAGE MORE ASSOC. RECEIVING STATIONS ON NEXT PAGE	8b2. ANTENNA RADIATION DIAGRAM ATTACHED SEE FIGURE NO.: Kelvins

REMARKS

D. SATELLITE NETWORK CHARACTERISTICS IN THE SPACE- SATELLITE TRANSMITTING ANTENNA BEAM DETAILS	PAGE 18 OF 27
5. CHARACTERISTICS OF THE BEAM b. TRANSMITTING BEAM DESIGNATION IS4 NOTE: For a steerable beam, the OLD BEAM DESIGNATION	of the beam A third character of the beam designation shall be "R".
ANTENNA CHARACTERISTICS	
ci/dl/fl. MAXIMUM ISOTROPIC GAIN +/- dBi +/- 55.7	AIN CONTOURS DIAGRAM
e/t2. ANTENNA RADIATION PATTERN DIAGRAM h. ESTIMATED ANT	TACHED. SEE FIGURE NO.: TENNA GAIN DIAGRAM VS ORBIT JDE ATTACHED. SEE FIGURE NO.: G9
INFORMATION TO BE PROVIDED FOR THIS TRANSM	IITTING ANTENNA BEAM
a. CLASS 2b. NATURE CP 2a. CLASS 2b. NATURE OF STATION OF SERVICE	PERIOD OF VALIDITY 20 Years
a. CLASS 2b. NATURE 2a. CLASS 2b. NATURE FSTATION OF SERVICE OF STATION OF SERVICE	SERVICE AREA
SERVICE AREA	OR ATTACHED SEE FIGURE NO.:
	RB IDENTIFICATION NUMBER for modification/suppression
TO A 58200.0 M	
SPACE STATION EMISSIONS AND ASSOCIATED RECEIVING S	STATION(S) INFORMATION
EMISSIONS AND POWER CHARACTERS	7. MODULATION
6/4a3 NECESSARY BANDWIDTH OR FC/G3a DESIGNATION OF EMISSION PEAK POWER POWER DENSITY POWER POWER POWER	RRIER Fd. SPACE/EARTH STATION E.I.R.P. CHARACTERISTICS ATTACHED. SEE ATTACHMENT NO.!
500MG1W + 18.7 - 65.8	+/- dBW
F. SPACE STATION CHARACTERISTICS OF RECEIVING SPACE STATION FOR SPACE-TO-SPACE RELAYS SPACE STATION NAME USASAT29D ADD/MOD/SUP of the station TYPE OF TYPICAL	ADD/MOD/SUP of the station
G3c. BEACON AND TELEMETRY INFORMATION ATTACHED. SEE ATTACHED NO.	PATTERN (give reference pattern or provide diagram) ***********************************

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FORM AP4-3

REMARKS [